

Astronomy LS1-2 Study Guide

Solar System Objects

100: An object that enters the atmosphere and reaches the ground without burning up is a _____.

200: The material thrown out of an impact crater during impact is _____.

300: Why are Earth's impact craters more difficult to find than on the Moon?

400: Asteroids mainly consists of _____; Comets mainly consist of _____.
Where is the asteroid belt located?

500: Astrogeology is the combination of _____ and _____.

What is a sundial and what two things change during the day on the sundial?

The Moon

100: It takes the Moon about _____ to orbit the Earth.

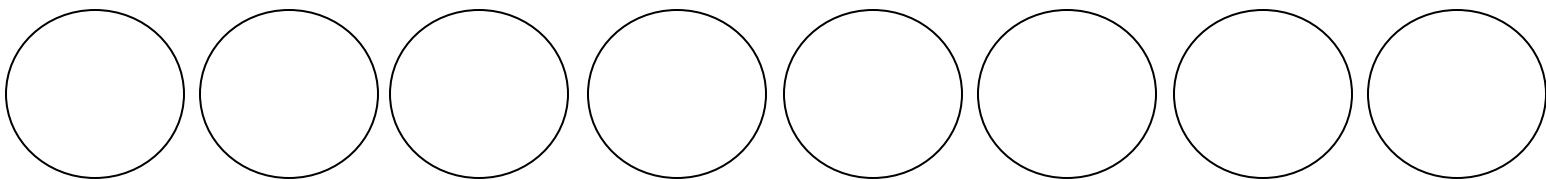
200: One complete cycle of the moon's phases takes about _____ Earth days.

300: When the illuminated part of the Moon appears to grow smaller, the Moon is _____.

400: The moon rotates on its axis about once every _____.

500: Draw a diagram of how the moon would be during the new moon phase. Label.

Sketch and label each phase of the moon.



Eclipses

100: _____ eclipse is when the moon passes between Sun and Earth and Sun's light is blocked.

200: Which phase is the moon in when a solar eclipse occurs?

300: Make a diagram of a lunar eclipse and a solar eclipse: Be sure to label the Sun, Moon, Earth, umbra, and penumbra:

400: The dark, inner shadow cast by an object is called _____.

500: The _____ eclipse happens more frequently than a _____ eclipse.

Why do the Sun and Moon look the same size even though the Moon is MUCH smaller than the Sun?

How long is the Sun completely blocked during a total solar eclipse?

Earth's Movement

100: How long does it take for the Earth to make one complete rotation?

200: The seasons are caused by the Earth's _____.

300: On December 21st, the Southern Hemisphere is beginning what season?

What season would the Northern Hemisphere be experiencing?

400: The sun is at its highest point in the sky at noon on the day of the _____.

500: The _____ lengths of daylight changes the most over the year.

Define solstice and equinox.

List the months of the year when the Northern Hemisphere experiences the following:

Summer Solstice _____ Winter Solstice _____

Spring Equinox _____ Fall Equinox _____

What two things affect the tides?

How many high tides are there per day?